

ENVIRONMENTAL SENSITIVITY - SITE INFORMATION

ASDA Ferring PFS Littlehampton Road, Ferring, BN12 6PN

ENVIRONMENTALLY SENSITIVE RECEPTORS

- ☒ Groundwater / Primary or Secondary Aquifers
- ☐ Sensitive groundwater important for drinking or supply to rivers
- ☐ Groundwater abstractions for potable drinking water
- ☐ Stream or River within less than 50m from the site
- ☐ Environment Agency Groundwater SPZ (Source Protection Zone)
- ☐ Site Drainage System / Soakaway

Zone 1
Zone 2
Zone 3

WHY PROTECTING THE ENVIRONMENT MATTERS

Release of fuel / hydrocarbons to groundwater / soil / air can breach environmental laws resulting in prosecution

- Clean-up of groundwater and soil impacted by fuel is very costly.
- Court fines for breached regulations.

Polluting the environment creates poor publicity and a negative brand image.

It is the responsibility of all managers & colleagues to ensure policies & procedures are implemented in accordance with 'ASDA Stores Ltd Environmental Policy' and 'Wallmart Global Environmental Health & Safety Policy'. ASDA compliance team will periodically check site conditions and appropriate actions taken where circumstances are sound unsatisfactory.

Prevention is better than remediation!

EMERGENCY CONTACTS

Where there is a:

- Confirmed breach of fuel containment systems
- Major fuel spill. Over 25Litres.
- Off-site surface migration of spilt fuel
- Significant persistent smell of fuel odours

Fire Brigade **999** (or **112** from mobile)

Environment Agency Hotline **0800 80 70 60**

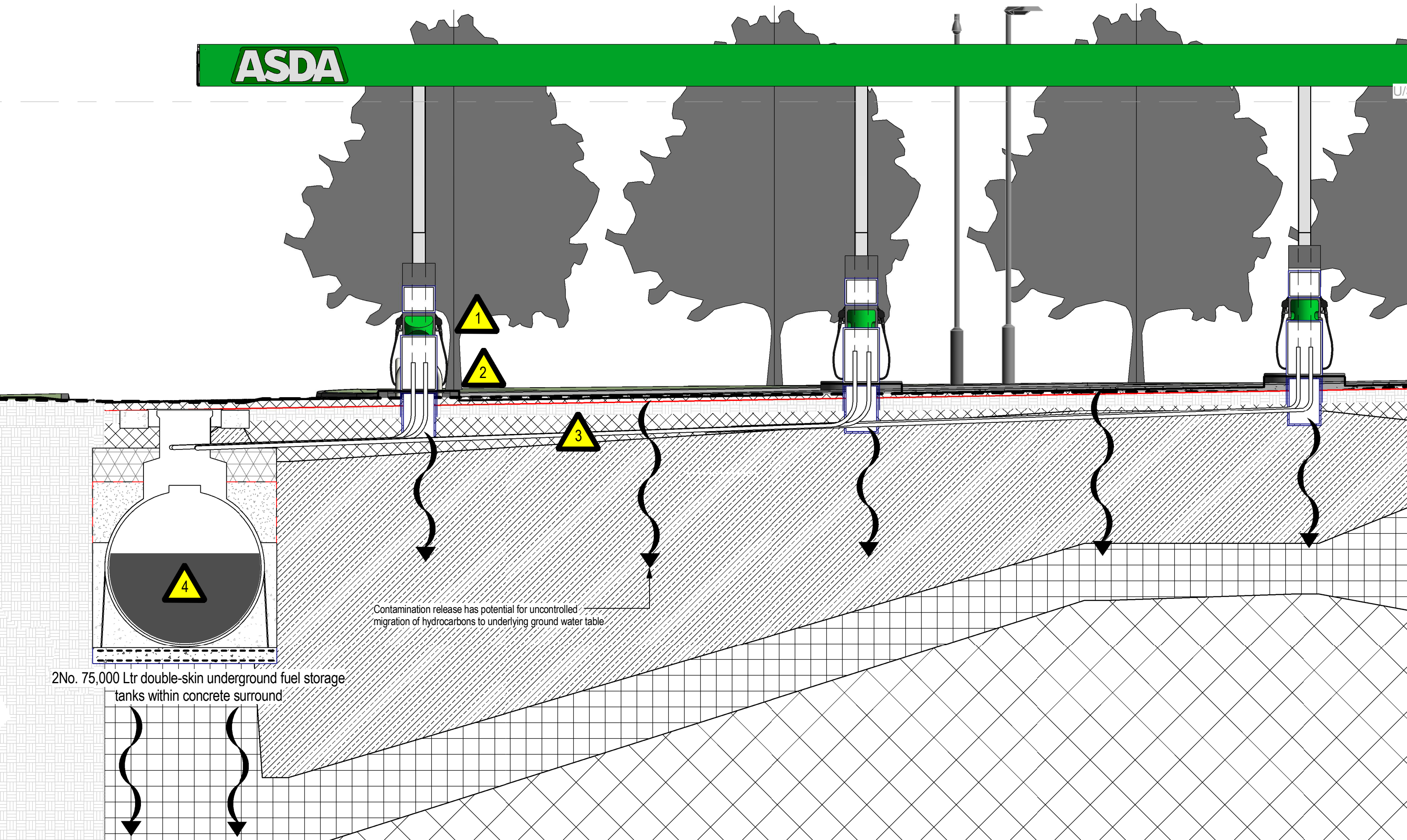
Causes of Fuel Spillages

- Blow-backs from fuel tanker or container when fuel level is reaching full capacity. Due to safety features within the nozzle this will normally result in a very small spill.
- Leak from a defective fuel tank from the vehicle being refuelled. Region of 50-70 Litres.
- Failure of hose coupling caused by vandalism or accidentally ripped off by a vehicle leaving the forecourt with the hose inserted in car.
- Large spills from fuel tanker compartment or failure of overfill prevention valve.

How to React Small spills are categorised as under 25litres. Large spills are categorised as 25litres and over.

Most fuel spills can be managed by competent colleague(s), however if the spill is too large to manage on site the emergency contact should called and ask the operator for the Fire Services and tell the following. Full address of the Petrol Station. Describe the incident. The store phone number.

SITE CROSS SECTION



Section illustrates general arrangement of tank installation relative to pumps and offset fills.

All works to be in accordance with the "Guidance for the design, construction, modification and maintenance of petrol filling stations" regulations produced by the institute of petroleum

All works to be agreed with the local petroleum officer prior to site application

CONTAMINATION RELEASE HAS POTENTIAL FOR UNCONTROLLED MIGRATION OF HYDROCARBONS TO UNDERLYING GROUND WATER TABLE

SIGNS OF POTENTIAL RISKS TO THE ENVIRONMENT & CONTROL MEASURES

This proposal is designed upon the principles of detection and containment based upon a theory that the systems, activities and monitoring in place are sufficiently robust to prevent any containment release and thereby adequately protect the local environment from contamination release that has potential for uncontrolled migration to underline aquifer. The key features of these measures are:

Fuel release above ground at the tanker fill point

- First line of containment by appropriate drainage channels to collect worst case product volume and rate of discharge defined by the APEA.
- Second line of containment to provide Class 1 full retention interceptors with capacity to withhold worst case contamination release as defined by the APEA.
- Third line of containment to monitor systems with 24/7alarms and automatic closures to interceptors.
- Overfill prevention valves to aid with product delivery management.

Fuel release above ground on the dispensing forecourt

- First line of containment is provided by drainage channels to collect minor spillages/drips arising from customer fuelling activities.
- Second line of containment is by drainage connections to Class 1 full retention interceptors.
- Third line of containment to monitor systems with 24/7alarms and automatic closures to interceptors.
- Ensure visual inspection of mastic sealant to concrete slab joints and to report any signs of degradation / damage.
- Sand buckets provided on fire trolley and within Emergency Box and DCD unit for soaking up minor spills.

**Note: Forecourt condition is to be monitored as part of all daily inspections and any surface spillages, minor or otherwise are to be cleaned immediately and reported in the daily checklist.*

Fuel release from underground pipework including offset fill pipes to tank, suction lines to dispensers and stage 2vapour recovery pipework.

- Failure of pipework vacuum will result in loss of suction and product will free drain by gravity back to UST. Line failure will be detected by forecourt management monitoring system.
- Under sump pumps monitored via forecourt management system with audible alarm.

Fuel release from underground storage tanks. Double skinned tanks specified.

- Fuel release detection by inner tank rupture releasing fuel into the interstitial space activating alarms by 24/7 monitoring system (interstitial space monitored via Class-1 system). Internal lining of tank to have epoxy coating (endoprene) to provide enhanced protection to bio-fuel degradation with a 30 year warranty.
- Fuel containment by outer tank lining.
- Concrete surround to tanks to contain fuel release into underlying ground water table.

C	Control room exterior colour revised, layout updated.	15/05/18	JF	MRJ
B	Site revised to be automated. Jet wash bays and vacuum unit omitted.	04/05/18	JF	MRJ
A	Issue for planning	Date 11	JF	ATS
	revision	date	by	chk

CLIENT

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DRAWING ISSUE

- ☐ Preliminary
- ☐ Costing
- ☐ Construction
- ☒ Planning
- ☐ Tender
- ☐ Record

date	scale @ A1	drawn by	checked by
05/12/17	1 : 50	JF	ATS

ASDA Ferring PFS
Littlehampton Road, Ferring, BN12 6PN

Site Sensitivity Information

role	originator	volume	levels	type	suitability
A	CA	S0	00	DR	S4
project number	drawing number	revision			
1731FW	200_08	C			

M 1:1250 1:50 1:20